

App. Serial No.: 10/092,933

Atty. Docket No.: 0003-029

IN THE CLAIMS

Please amend the claims as follows:

1. (currently amended) A ventilation flow control unit according to Claim 14, further comprising:
  - ~~a plenum;~~
  - ~~a flow controller mounted to said plenum;~~
  - an isolation valve fixed to said plenum to selectively block the flow of air between said plenum and said flow controller; ~~and~~
  - ~~a flow sensor mounted to said plenum; and~~
  - ~~wherein said ventilation flow control unit can be installed as a single component.~~
2. (original) A ventilation flow control unit according to Claim 1, wherein said sensor is mounted in a duct section fixed between said plenum and said flow controller.
3. (canceled)
4. (previously presented) A ventilation flow control unit according to Claim 1, wherein the leakage of said isolation valve is no more than one percent.
5. (previously presented) A ventilation flow control unit according to Claim 1, wherein said isolation valve comprises a damper.
6. (original) A ventilation flow control unit according to Claim 5, wherein said damper is a fixed blade damper.

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7. (currently amended) A ventilation flow control unit comprising:
- a plenum;
  - a flow controller mounted to said plenum;
  - a flow sensor mounted to said plenum;
  - a thermal coil fixed to said plenum, for affecting the temperature of air passing through said ventilation flow control unit; [[and]]
  - an automatic valve connected with at least one fluid line of said thermal coil; and
  - a protection bracket mounted to protect said automatic valve from damage during transportation and installation of said ventilation flow control unit
- ~~wherein said ventilation flow control unit can be installed as a single component.~~

8. (original) A ventilation flow control unit according to Claim 7, wherein said thermal coil is mounted to an open end of said plenum opposite said flow controller.

9. (previously presented) A ventilation flow control unit according to Claim 7, wherein said at least one fluid line of said thermal coil is mounted to said plenum.

Claims 10-11 (canceled)

12. (currently amended) A ventilation flow control unit according to ~~Claim 11~~ Claim 7, wherein said protection bracket includes:

- a base defining an opening to facilitate the passage of a valve stem;
- a first riser extending from a first edge of said base; and
- a second riser extending from a second edge of said base opposite said first edge.

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13. (currently amended) A ventilation flow control unit ~~according to Claim 7, wherein~~  
~~said plenum is insulated comprising:~~

an insulated plenum;

a flow controller mounted to said plenum;

a flow sensor mounted to said plenum;

a thermal coil fixed to said plenum, for affecting the temperature of air passing  
through said ventilation flow control unit; and

an automatic valve connected with at least one fluid line of said thermal coil.

14. (previously presented) A ventilation flow control unit comprising:

a plenum;

a flow controller mounted to said plenum;

a flow sensor mounted to said plenum; and

an electrical disconnect.

15. (original) A ventilation flow control unit according to Claim 14, wherein said  
electrical disconnect is mounted on said plenum.

16. (original) A ventilation flow control unit according to Claim 14, further comprising  
a voltage converter electrically coupled to receive electrical power from said disconnect, for  
converting a first voltage received from said disconnect to a second lower voltage.

17. (original) A ventilation flow control unit according to Claim 16, wherein said  
converter provides low voltage to said flow controller.

18. (original) A ventilation flow control unit according to Claim 17 wherein:  
said flow control unit further includes a thermal coil with at least one automatic fluid  
valve; and  
said converter provides low voltage to said automatic fluid valve.

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19. (original) A ventilation flow control unit according to Claim 16 wherein:  
said flow control unit further includes a thermal coil with at least one automatic fluid valve; and  
said converter provides low voltage to said automatic fluid valve.

Claims 20-21 (canceled)

22. (currently amended) A method of installing a ventilation flow control unit, comprising:  
assembling a flow control unit by mounting a flow controller to a duct, mounting a flow sensor to said duct, and mounting a thermal coil to said duct including securing at least one fluid line of said thermal coil to said duct and mounting an automatic valve in said fluid line including mounting a protective bracket around said automatic valve; and  
installing said assembled flow control unit in a ventilation system.

Claims 23-25 (canceled)

26. (previously presented) A method of installing a ventilation flow control unit, comprising:  
assembling a flow control unit by mounting a flow controller to a duct, mounting a flow sensor to said duct, and mounting an electrical disconnect to said duct; and  
installing said assembled flow control unit in a ventilation system.

27. (original) A method of installing a ventilation flow control unit according to Claim 26, wherein said step of assembling said flow control unit further includes mounting an electrical converter to said duct for converting a voltage from said electrical disconnect to a second lower voltage.

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28. (currently amended) A method of installing a ventilation flow control unit comprising:

assembling a flow control unit by mounting a flow controller to a duct, mounting a flow sensor to said duct, mounting a thermal coil to said duct, mounting an electrical disconnect to said duct, and mounting an isolation valve to said duct, said isolation valve selectively blocking the flow of air between said duct and said flow controller; and  
installing said assembled flow control unit in a ventilation system.

29. (canceled)

30. (currently amended) A method of installing a ventilation flow control unit according to ~~Claim 29~~ Claim 28, wherein said step of assembling said flow control unit includes mounting an electrical converter to said duct.

31. (original) A method of installing a ventilation flow control unit according to Claim 30, wherein said step of assembling said flow control unit includes electrically coupling said flow controller to said electrical converter.

32. (original) A method of installing a ventilation flow control unit according to Claim 30, wherein said step of assembling said flow control unit includes:

mounting an automatic valve to a fluid line of said thermal coil to control the flow of fluid through said fluid coil;  
electrically coupling said automatic valve to said electrical converter.

33. (original) A method of installing a ventilation flow control unit according to Claim 32, wherein said step of assembling said flow control unit includes electrically coupling said flow controller to said electrical converter.

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34. (original) A ventilation flow control system comprising:
- a first flow control unit for controlling the flow of air into a room, said first flow control unit including a duct, a flow controller mounted to said duct, and a sensor mounted to said duct;
  - a second flow control unit for controlling the flow of air out of said room, said second flow control unit including a duct, a flow controller mounted to said duct, and a sensor mounted to said duct; and
  - a control unit for receiving feedback signals from said sensors and providing control signals to said flow controllers.

35. (original) A ventilation flow control system according to Claim 34, wherein said first flow control unit further includes a thermal coil mounted to said duct of said first flow control unit.

36. (original) A ventilation flow control system according to Claim 34, wherein at least one of said first and second flow control units includes an isolation valve.

37. (previously presented) A ventilation flow control system according to Claim 34, wherein both of said first and second flow control units include an isolation valve.

38. (original) A ventilation flow control system according to Claim 34, wherein at least one of said first and second flow control units include an electrical disconnect.

39. (original) A ventilation flow control system according to Claim 38, wherein said at least one of said first and second flow control units further includes an electrical converter for converting a voltage from said electrical disconnect to a lower voltage.

40. (original) A ventilation flow control system according to Claim 34, further comprising a third flow control unit for controlling the flow of air out of said room, said third flow control unit including a duct, a flow controller mounted to said duct, and a sensor mounted to said duct.

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41. (original) A ventilation flow control system according to Claim 40, wherein said control unit receives feedback signals from and provides control signals to said third flow control unit.

42. (original) A ventilation flow control system according to Claim 41, wherein:  
said first flow control unit is mounted in an air supply duct;  
said second flow controller is mounted in an air return duct; and  
said third flow control unit is mounted in an exhaust duct.

43. (new) A ventilation flow control unit according to Claim 13, wherein said thermal coil is mounted to an open end of said plenum opposite said flow controller.

44. (new) A ventilation flow control unit according to Claim 13, wherein said at least one fluid line of said thermal coil is mounted to said plenum.

45. (new) A method of installing a ventilation flow control unit according to Claim 22, wherein said step of assembling said flow control unit further includes mounting an isolation valve to said duct to selectively block the flow of air between said duct and said flow controller.